

Title (en)

INERTIAL PARTICLE SEPARATOR AND PARTICLE BOUNCE CONTROL

Title (de)

TRÄGHEITSPARTIKELABSCHIEDER- UND PARTIKELAUFPBALLSTEUERUNG

Title (fr)

SÉPARATEUR DE PARTICULES INERTIEL ET CONTRÔLE DE REBOND PARTICULAIRE

Publication

EP 3067531 B1 20200506 (EN)

Application

EP 16159222 A 20160308

Priority

US 201562130723 P 20150310

Abstract (en)

[origin: EP3067531A1] An inertial particle separator (IPS) (102, 200) including an intake air duct (212), a scavenge duct (228) that shares an interior common wall (232) with the intake air duct (212), a clean air duct (230), and a splitter (226). The splitter (226) is configured to split a flow of intake air (214) into a flow of scavenge air (216) and a flow of clean air (218). The IPS (102, 200) also includes a plurality of valleys (302) on the the intake air duct (212). The plurlaity of valleys (302) includes a plurality of troughs (432, 434, 436, 438, 440) and peaks (422, 424, 426, 428, 430) along the interior common wall (232). In addition, each trough (432, 434, 436, 438, 440) of the plurality of valleys (302) extends along a direction of the flow of intake air (214).

IPC 8 full level

F02C 7/052 (2006.01)

CPC (source: EP US)

B64D 33/02 (2013.01 - EP US); **F02C 3/04** (2013.01 - US); **F02C 7/05** (2013.01 - US); **F02C 7/052** (2013.01 - EP US); **B64D 2033/0246** (2013.01 - EP US); **F05D 2210/30** (2013.01 - EP US); **F05D 2220/32** (2013.01 - US); **F05D 2250/61** (2013.01 - EP US); **F05D 2250/611** (2013.01 - EP US)

Cited by

EP3660296A1; CN110617149A; US10947901B2

Designated contracting state (EPC)

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DOCDB simple family (publication)

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